

RECEIVED

Page 1 of 6

JUL 10 2001

TECH CENTER 1600/2900

1642

## RAW SEQUENCE LISTING

DATE: 06/14/2001

PATENT APPLICATION: US/09/617,174

TIME: 10:11:15

Input Set : A:\00530-079003.txt

Output Set: N:\CRF3\06142001\I617174.raw

4 <110> APPLICANT: Arthur Pardee, executor for Ruth Sager, deceased  
5 Zhang, Ming  
7 <120> TITLE OF INVENTION: TRANSCRIPTIONAL REGULATORY SEQUENCE AND USES THEREOF  
9 <130> FILE REFERENCE: 00530-079003  
11 <140> CURRENT APPLICATION NUMBER: US 09/617,174  
12 <141> CURRENT FILING DATE: 2000-07-17  
14 <150> PRIOR APPLICATION NUMBER: US 09/155,380  
15 <151> PRIOR FILING DATE: 1998-09-28  
17 <150> PRIOR APPLICATION NUMBER: PCT/US97/05186  
18 <151> PRIOR FILING DATE: 1997-03-28  
20 <150> PRIOR APPLICATION NUMBER: US 60/014,368  
21 <151> PRIOR FILING DATE: 1996-03-28  
23 <160> NUMBER OF SEQ ID NOS: 20  
25 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
27 <210> SEQ ID NO: 1  
28 <211> LENGTH: 1141  
29 <212> TYPE: DNA  
30 <213> ORGANISM: Homo sapiens  
32 <400> SEQUENCE: 1  
33 agataagcac agcagagaag caaccagctc cgtttcaggt cctttcctga ggctgattcg 60  
34 gctggaagg agtaggtccc accaaatgaa gaagctgtgg gaagacagga ggacaagaac 120  
35 aggctccacg aagagatttc agagcagagc tgcgtactcc tttttctttt tgtttctttt 180  
36 gctctgtcac ccaggctgaa gtacagtggg tagctcacgg ctcaactgcag ctttgacctc 240  
37 ccaggctcaa gtgatcctct cgtctcagct ttccaagtaa ctgggaccac aggcattgat 300  
38 caccacgcta ggctattgtt ttacattttt tgtagagatg gggctctacc atgttgccca 360  
39 gggttggtct aaactcctgg gctcaagcaa tccgctcacg tcaacctccc caaatgctgg 420  
40 gattacagcg gtgagccacc gggccagggc tgagtaatcc taatcacagg attttaaaaa 480  
41 gaaacttctc gcgccacca ttaaacaata tctcctacca atttggtagt aaatatattg 540  
42 ctaatagtag ctaattttta ggtaggcact gtgtttatac atatattccat tccttctttt 600  
43 ttgattgtct ttctgtttta tgggcagcta cttctcttgg catctagcag aatgagctgc 660  
44 tgcagtttac acaaaaagaa tggagatcag agtacttttt gtgccaccaa cgtgtctgag 720  
45 aaatttgtag tgttactatc atcacacatt acttttattt catcgaatat ttcaccttcc 780  
46 ggtcctgcgt gggccgagag gattgccgta cgcattgtct tacgtatgca tgaactcac 840  
47 agcccccttc tgcccgaaca tgttgagggc cttttggaag ctgtgcagac aacagcaact 900  
48 tcagcctgaa tcattctctt caattgtgga caagctgcca agaggcttga gtaggagagg 960  
49 agtgccgccc aggcggggcg gggcggggcg tggagctggg ctggcagtg ggcgtggcgg 1020  
50 gctgcccagg tgagccaccg ctgcttctgc ccagacacgg tcgcctccac atccaggtct 1080  
51 ttgtgctcct cgttgccctg ttctttttcc acgcattttc caggataact gtgactccag 1140  
52 g 1141  
55 <210> SEQ ID NO: 2  
56 <211> LENGTH: 51  
57 <212> TYPE: DNA  
58 <213> ORGANISM: Artificial Sequence  
60 <220> FEATURE:  
61 <223> OTHER INFORMATION: oligonucleotide for PCR  
63 <400> SEQUENCE: 2  
64 tcaccagtta tcctggaaaa tgcgtggaaa aggaacaggc aagcgaggag c 51

ENTERED

## RAW SEQUENCE LISTING

DATE: 06/14/2001

PATENT APPLICATION: US/09/617,174

TIME: 10:11:15

Input Set : A:\00530-079003.txt

Output Set: N:\CRF3\06142001\I617174.raw

```

66 <210> SEQ ID NO: 3
67 <211> LENGTH: 20
68 <212> TYPE: DNA
69 <213> ORGANISM: Artificial Sequence
71 <220> FEATURE:
72 <223> OTHER INFORMATION: oligonucleotide for PCR
74 <400> SEQUENCE: 3
75 cagcccccttc ctgcccgaac 20
77 <210> SEQ ID NO: 4
78 <211> LENGTH: 21
79 <212> TYPE: DNA
80 <213> ORGANISM: Artificial Sequence
82 <220> FEATURE:
83 <223> OTHER INFORMATION: oligonucleotide for PCR
85 <400> SEQUENCE: 4
86 gtcggggaag gacggggcctt g 21
88 <210> SEQ ID NO: 5
89 <211> LENGTH: 20
90 <212> TYPE: DNA
91 <213> ORGANISM: Artificial Sequence
93 <220> FEATURE:
94 <223> OTHER INFORMATION: oligonucleotide for PCR
96 <400> SEQUENCE: 5
97 cagcccccttt ttgcccgaac 20
99 <210> SEQ ID NO: 6
100 <211> LENGTH: 20
101 <212> TYPE: DNA
102 <213> ORGANISM: Artificial Sequence
104 <220> FEATURE:
105 <223> OTHER INFORMATION: oligonucleotide for PCR
107 <400> SEQUENCE: 6
108 gtcgggggaaa aacgggcttg 20
110 <210> SEQ ID NO: 7
111 <211> LENGTH: 22
112 <212> TYPE: DNA
113 <213> ORGANISM: Artificial Sequence
115 <220> FEATURE:
116 <223> OTHER INFORMATION: oligonucleotide for PCR
118 <400> SEQUENCE: 7
119 ccttggtcaga caggcaagtg cc 22
121 <210> SEQ ID NO: 8
122 <211> LENGTH: 22
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
126 <220> FEATURE:
127 <223> OTHER INFORMATION: oligonucleotide for PCR
129 <400> SEQUENCE: 8
130 ggaacagtct gtccgttcac gg 22
132 <210> SEQ ID NO: 9

```

## RAW SEQUENCE LISTING

DATE: 06/14/2001

PATENT APPLICATION: US/09/617,174

TIME: 10:11:15

Input Set : A:\00530-079003.txt

Output Set: N:\CRF3\06142001\I617174.raw

```

133 <211> LENGTH: 19
134 <212> TYPE: DNA
135 <213> ORGANISM: Artificial Sequence
137 <220> FEATURE:
138 <223> OTHER INFORMATION: oligonucleotide for PCR
140 <400> SEQUENCE: 9
141 agtactctga tctccattc 19
143 <210> SEQ ID NO: 10
144 <211> LENGTH: 19
145 <212> TYPE: DNA
146 <213> ORGANISM: Artificial Sequence
148 <220> FEATURE:
149 <223> OTHER INFORMATION: oligonucleotide for PCR
151 <400> SEQUENCE: 10
152 gaatggagat cagagtact 19
154 <210> SEQ ID NO: 11
155 <211> LENGTH: 27
156 <212> TYPE: DNA
157 <213> ORGANISM: Artificial Sequence
159 <220> FEATURE:
160 <223> OTHER INFORMATION: oligonucleotide for PCR
162 <400> SEQUENCE: 11
163 ctaggctgta caggatgttc tgcctag 27
165 <210> SEQ ID NO: 12
166 <211> LENGTH: 27
167 <212> TYPE: DNA
168 <213> ORGANISM: Artificial Sequence
170 <220> FEATURE:
171 <223> OTHER INFORMATION: oligonucleotide for PCR
173 <400> SEQUENCE: 12
174 gatccgacat gtcctacaag acggatc 27
177 <210> SEQ ID NO: 13
178 <211> LENGTH: 21
179 <212> TYPE: DNA
180 <213> ORGANISM: Artificial Sequence
182 <220> FEATURE:
183 <223> OTHER INFORMATION: oligonucleotide for PCR
185 <400> SEQUENCE: 13
186 ccttgtcaga caggcaagtc c 21
188 <210> SEQ ID NO: 14
189 <211> LENGTH: 22
190 <212> TYPE: DNA
191 <213> ORGANISM: Artificial Sequence
193 <220> FEATURE:
194 <223> OTHER INFORMATION: oligonucleotide for PCR
196 <400> SEQUENCE: 14
197 ggaacagtct grccgttcac gg 22
199 <210> SEQ ID NO: 15
200 <211> LENGTH: 38

```

## RAW SEQUENCE LISTING

DATE: 06/14/2001

PATENT APPLICATION: US/09/617,174

TIME: 10:11:15

Input Set : A:\00530-079003.txt

Output Set: N:\CRF3\06142001\I617174.raw

```

201 <212> TYPE: DNA
202 <213> ORGANISM: Artificial Sequence
204 <220> FEATURE:
205 <223> OTHER INFORMATION: oligonucleotide for PCR
207 <400> SEQUENCE: 15
208 aactgcagtt tacacaaaaa gaatgatatc cggagtac          38
210 <210> SEQ ID NO: 16
211 <211> LENGTH: 28
212 <212> TYPE: DNA
213 <213> ORGANISM: Artificial Sequence
215 <220> FEATURE:
216 <223> OTHER INFORMATION: oligonucleotide for PCR
218 <400> SEQUENCE: 16
219 ggtggtatat ccagtgattt ttttctcc          28
221 <210> SEQ ID NO: 17
222 <211> LENGTH: 25
223 <212> TYPE: DNA
224 <213> ORGANISM: Artificial Sequence
226 <220> FEATURE:
227 <223> OTHER INFORMATION: oligonucleotide for PCR
229 <400> SEQUENCE: 17
230 gatccagtac tctgatctcc attcg          25
232 <210> SEQ ID NO: 18
233 <211> LENGTH: 25
234 <212> TYPE: DNA
235 <213> ORGANISM: Artificial Sequence
237 <220> FEATURE:
238 <223> OTHER INFORMATION: oligonucleotide for PCR
240 <400> SEQUENCE: 18
241 gatccgaatg gagatcagag tactg          25
243 <210> SEQ ID NO: 19
244 <211> LENGTH: 15
245 <212> TYPE: DNA
246 <213> ORGANISM: Artificial Sequence
248 <220> FEATURE:
249 <223> OTHER INFORMATION: consensus Sequence
252 <221> NAME/KEY: misc_feature
253 <222> LOCATION: (1)...(15) /
254 <223> OTHER INFORMATION: n = A,T,C or G
256 <400> SEQUENCE: 19
W--> 257 ggtacannnt gtyct          15
259 <210> SEQ ID NO: 20
260 <211> LENGTH: 14
261 <212> TYPE: DNA
262 <213> ORGANISM: Homo sapiens
264 <400> SEQUENCE: 20
265 gtactctgat ctcc          14

```

VERIFICATION SUMMARY

PATENT APPLICATION: US/09/617,174

DATE: 06/14/2001

TIME: 10:11:16

Input Set : A:\00530-079003.txt

Output Set: N:\CRF3\06142001\I617174.raw

L:257 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19